

Rainfall and Wind Speed Sensors

Rain Bird Rainfall Gauge

The Rain Bird Rainfall Gauge customizes the weather data gathering features of Maxicom² by providing site-specific rainfall measurements. The central controller retrieves this information daily, adjusting station runtimes using the site-specific weather data. The Rainfall Gauge may be used to automatically interrupt Maxicom² during an irrigation cycle if it starts to rain. If enough rainfall occurs, further irrigation will be cancelled. If only a small amount of rainfall occurs, irrigation will resume, adjusting runtimes for the amount of rainfall that occurred.

Features

- Identifies localized rainfall and adjusts system operation accordingly
- Watering cycle can be interrupted or cancelled when rainfall commences
- Provides site specific rainfall measurements in increments of 0.01" (.025 cm)
- Heavy-duty construction, with a gold anodized aluminum collector funnel and white baked enamel coated aluminum sensor housing
- Filter screen for capturing debris
- Integrates into the Maxicom² system using the Rain Bird pulse decoder for two-wire CCU systems, or directly to the sensor input on ESP-Site and MAXILink satellite controllers

Specifications

- Resolution: 0.01" (.025 cm)
- Accuracy: 1.0% at 1" (2.5 cm)/hour or less
- Average switch closure time: 135 ms
- Maximum bounce settling time: .75 ms
- Maximum switch rating: 30 VDC @ 2 A, 115 VAC @ 1A
- Temperature limits: +32° F to +125° F (0° C to +52° C)
- Humidity limits: 0 – 100%
- Height: 4.5" (11,4 cm)
- Weight: 1.5 pounds (0,68 Kg)
- Receiving orifice diameter: 3.80" (9,7 cm)
- Cable: 60 feet (18 meters)

Model

- RAINGAUGE

Rain Bird Anemometer (Wind Speed Meter)

The Rain Bird Anemometer provides additional customization to the Maxicom² Central Control system by providing site-specific windfall measurements. Local wind speed is captured by the Wind Speed Meter and input to the Cluster Control Unit (CCU). The CCU can interrupt irrigation when wind velocity reaches a programmed set point. Interrupting a watering cycle during windy conditions saves water, avoids property damage, and improves sprinkler distribution uniformity.

Features

- Precision three-cup anemometer for measuring wind velocity
- Balanced rotor and low friction bearings detect wind speeds from 4 MPH to 80MPH (6,5 to 128 km/h)
- Electronics supplied with a weather tight enclosure exceeding NEMA 4 and 6 specifications
- Mounting bracket and 20 feet (6 meters) of cable
- Identifies localized wind speed and adjusts system operation accordingly
- Watering cycle can be interrupted during windy conditions
- Integrates into the Maxicom² system using the Rain Bird pulse decoder for two-wire CCU systems, or directly to the sensor input on ESP-Site and MAXILink satellite controllers

Specifications

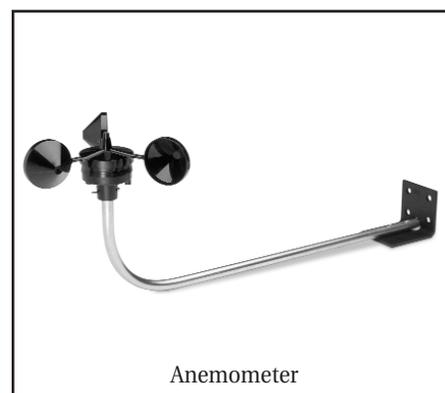
- Power supply: 5 to 24 VDC
- Current draw: 3 to 7 mA
- Output signal: K = 1.6965, offset of +0.059
- Cable: 20 feet (6 meters)
- Weight: 1.3 Lbs (0,6 Kg)
- Dimensions: 22"L x 8"W x 8"H (56 cmL x 20cmW x 20cmH)

Model

- ANEMOMETER (Wind Speed Meter)



Rainfall Gauge



Anemometer

How to Specify

RAINGAUGE

ANEMOMETER



Specifications

Model: RAINGAUGE

The rainfall gauge shall be a tipping bucket type, with each tip of the tipping bucket producing a momentary switch closure. The rainfall gauge will be constructed of a gold anodized aluminum collector funnel, white baked enamel coated aluminum sensor housing, stainless steel shafts, screws and nuts, and brass shaft collars. The tipping bucket will be injection molded plastic providing rainfall measurements in increments of 0.01" (.025 cm). The rainfall gauge shall have three mounting feet for use on flat surfaces as well as a side bracket for mast mounting. The rainfall gauge shall operate in temperatures ranging from +32° F to +125° F (0° C to +52° C). 60 feet (18 meters) of 2-conductor cable shall be included. This rainfall sensor shall be Rain Bird Model RAINGAUGE.

Model: ANEMOMETER

The wind speed meter shall be a three-cup anemometer providing wind speed measurements from 4 – 80 miles per hour (6,5 to 128 km/h). The wind speed meter electronics shall be housed in a weather-tight enclosure exceeding NEMA 4 and 6 specifications. The wind speed meter shall include a mounting bracket and 20 feet (6 meters) of cable. This wind speed meter shall be Rain Bird Model ANEMOMETER.

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